

ABSTRACT OF THE DISCLOSURE

A diffraction optical element wherein a plurality of diffraction gratings formed of at least two kinds of materials differing in dispersion are laminated, at
5 least two of the plurality of diffraction gratings are formed on a curved surface and adjacent to each other, and these two adjacent diffraction gratings are equal to each other in the shape of a curved tip plane in
10 which the tips of respective grating portions are ranged.